pD17-cJ-dCH2.H1

```
10  GACGGATCGG    20  GAGATCTGCT    30  AGGTGACCTG    40  AGGCGCGCCG    50  GCTTCGAATA
    CTGCCTAGCC        CTCTAGACGA        TCCACTGGAC        TCCGCGCGGC        CGAAGCTTAT

60  GCCAGAGTAA    70  CCTTTTTTTT    80  TAATTTTATT    90  TTATTTTATT
    CGGTCTCATT        GGAAAAAAAA        ATTAAAATAA        AATAAAATAA

100 TTTGAGATGG   110  AGTTTGGCGC   120  CGATCTCCCG   130  ATCCCCTATG   140  GTCGACTCTC
    AAACTCTACC        TCAAACCGCG        GCTAGAGGGC        TAGGGGATAC        CAGCTGAGAG

150 AGTACAAATCT  160  GCTCTGATGC   170  CGCATAGTTA   180  AGCCAGTATC
    TCATGTTAGA        CGAGACTACG        GCGTATCAAT        TCGGTCATAG

190 TGCTCCCTGC   200  TTGTGTGTTG   210  GAGGTCGCTG   220  AGTAGTGCGC   230  GAGCAAAATT
    ACGAGGGACG        AACACACAAC        CTCCAGCGAC        TCATCACGCG        CTCGTTTTAA

240 TAAGCTACAA   250  CAAGGCAAGG   260  CTTGACCGAC   270  AATTGCATGA
    ATTCGATGTT        GTTCCGTTCC        GAACTGGCTG        TTAACGTACT

280 AGAATCTGCT   290  TAGGGTTAGG   300  CGTTTGCGG    310  TGTACGGGCC   320  AGATATACGC
    TCTTAGACGA        ATCCCAATCC        GCAAAACGCC        ACATGCCCGG        TCTATATGCG

330 GTTGACATTG   340  ATTATTGACT   350  AGTTATTAAT   360
    CAACTGTAAC        TAATAACTGA        TCAATAATTA

370 AGTAATCAAT   380  TACGGGGTCA   390  TTAGTTCATA   400  GCCCATATAT   410  GGAGTTCCGC
    TCATTAGTTA        ATGCCCCAGT        AATCAAGTAT        CGGGTATATA        CCTCAAGGCG

420 GTTACATAAC   430  TTACGGTAAA   440  TGGCCCGCCT   450  GGCTGACCGC
    CAATGTATTG        AATGCCATTT        ACCGGGCGGA        CCGACTGGCG

460 CCAACGACCC   470  CCGCCCATTG   480  ACGTCAATAA   490  TGACGTATGT   500  TCCCATAGTA
    GGTTGCTGGG        GGCGGGTAAC        TGCAGTTATT        ACTGCATACA        AGGGTATCAT

510 ACGCCAATAG   520  GGACTTTCCA   530  TTGACGTCAA   540  TGGGTGGACT
    TGCGGTTATC        CCTGAAAGGT        AACTGCAGTT        ACCCACCTGA

550 ATTTACGGTA   560  AACTGCCCAC   570  TTGGCAGTAC   580  ATCAAGTGTA   590  TCATATGCCA
    TAAATGCCAT        TTGACGGGTG        AACCGTCATG        TAGTTCACAT        AGTATACGGT

600 AGTACGCCCC   610  CTATTGACGT   620  CAATGACGGT   630  AAATGGCCCG
    TCATGCGGGG        GATAACTGCA        GTTACTGCCA        TTTACCGGGC

640 CCTGGCATTA   650  TGCCCAGTAC   660  ATGACCTTAT   670  GGGACTTTCC   680  TACTTGGCAG
    GGACCGTAAT        ACGGGTCATG        TACTGGAATA        CCCTGAAAGG        ATGAACCGTC

690 TACATCTACG   700  TATTAGTCAT   710  CGCTATTACC   720  ATGGTGATGC
    ATGTAGATGC        ATAATCAGTA        GCGATAATGG        TACCACTACG

730 GGTTTTGGCA   740  GTACATCAAT   750  GGGCGTGGAT   760  AGCGGTTTGA   770  CTCACGGGGA
    CCAAAACCGT        CATGTAGTTA        CCCGCACCTA        TCGCCAAACT        GAGTGCCCCT

780 TTTCCAAGTC   790  TCCACCCCAT   800  TGACGTCAAT   810  GGGAGTTTGT
    AAAGGTTCAG        AGGTGGGGTA        ACTGCAGTTA        CCCTCAAACA

820 TTTGGCACCA   830  AAATCAACGG   840  GACTTTCCAA   850  AATGTCGTAA   860  CAACTCCGCC
    AAACCGTGGT        TTTAGTTGCC        CTGAAAGGTT        TTACAGCATT        GTTGAGGCGG

870 CCATTGACGC   880  AAATGGGCGG   890  TAGGCGTGTA   900  CGGTGGGAGG
    GGTAACTGCG        TTTACCCGCC        ATCCGCACAT        GCCACCCTCC
```

Figure 14A
(SEQ ID NO.: 10 – Primary Sequence)
(SEQ ID NO.: 28 – Complement)

pD17-cJ-dCH2.H1

```
910        920        930        940        950        960        970        980        990
TCTATATAAG CAGAGCTCTC TGGCTAACTA GAGAACCCAC TGCTTACTGG CTTATCGAAA TTAATACGAC TCACTATAGG GAGACCCAAG
AGATATATTC GTCTCGAGAG ACCGATTGAT CTCTTGGGTG ACGAATGACC GAATAGCTTT AATTATGCTG AGTGATATCC CTCTGGGTTC

1000       1010       1020       1030       1040       1050       1060       1070       1080
CTTGGTACCA ATTTAAATTG ATATCTCCTT AGGTCTCGAG TCTCTAGATA ACCGGTCAAT CGATTGGAAT TCTTGCGGCC GCTTGCTAGC
GAACCATGGT TAAATTTAAC TATAGAGGAA TCCAGAGCTC AGAGATCTAT TGGCCAGTTA GCTAACC-TA AGAACGCCGG CGAACGATCG

1090       1100       1110       1120       1130       1140       1150       1160       1170
CACCATGGAG TTGTGGTTAA GCTTGGTCCT TCCTTGTCCT TGTTTTAAAA GGTGTCCAGT GTGAAGTGAA TCTGGTGGAG TCTGGGGGAG
GTGGTACCTC AACACCAATT CGAACCAGGA AGGAACAGGA ACAAAAATTT CCACAGGTCA CACTTCACTT AGACCACCTC AGACCCCCTC

1180       1190       1200       1210       1220       1230       1240       1250       1260
GCTTAGTGCA GCCTGGAGGG TCCCTGAAAG TCTCCTGTGT AACCTCTGGA TTCACTTTCA GTGACTATTA CATGTATTGG GTTCGCCAGA
CGAATCACGT CGGACCTCCC AGGGACTTTC AGAGGACACA TTGGAGACCT AAGTGAAAGT CACTGATAAT GTACATAACC CAAGCGGTCT

1270       1280       1290       1300       1310       1320       1330       1340       1350
CTCCAGAGAA GAGGCTGGAG TGGGTCGCAT ACATTAGTCA AGGTGGTGAT ATAACCGACT ATCCAGACAC TGTAAAGGGT CGATTCACCA
GAGGTCTCTT CTCCGACCTC ACCCAGCGTA TGTAATCAGT TCCACCACTA TATTGGCTGA TAGGTCTGTG ACATTTCCCA GCTAAGTGGT

1360       1370       1380       1390       1400       1410       1420       1430       1440
TCTCCAGAGC CAATGCCAAG AACACCCTGT ACCTGCAAAT GAGCCGTCTG AAGTCTGAGG ACACAGCCAT GTATTACTGT GCAAGAGGCC
AGAGGTCTCG GTTACGGTTC TTGTGGGACA TGGACGTTTA CTCGGCAGAC TTCAGACTCC TGTGTCGGTA CATAATGACA CGTTCTCCGG

1450       1460       1470       1480       1490       1500       1510       1520       1530
GGCCTGGTTT GCTTACTGGG GCCAAGGGAC TCTGGTCACG GTCTCTGTAG CTAGCACCAA GGGCCCATCG GTCTTCCCCC GTGGTCACCG
CCGGACCAAA CGAATGACCC CGGTTCCCTG AGACCAGTGC CAGAGACATC GATCGTGGTT CCCGGGTAGC CAGAAGGGGG CACCAGTGGC

1540       1550       1560       1570       1580       1590       1600       1610       1620
TGGCACCCTC CTCCAAGAGC ACCTCTGGGG GCACAGCGGC CCTGGGCTGC CTGGTCAAGG ACTACTTCCC CGAACCGGTG ACGGTGTCGT
ACCGTGGGAG GAGGTTCTCG TGGAGACCCC CGTGTCGCCG GGACCCGACG GACCAGTTCC TGATGAAGGG GCTTGGCCAC TGCCACAGCA

1630       1640       1650       1660       1670       1680       1690       1700       1710
GGAACTCAGG CGCCCTGACC AGGGGCGTGC ACACCTTCCC GGCTGTCCTA CAGTCCTCAG GACTCTACTC CCTCAGCAGC GTGGTCACCG
CCTTGAGTCC GCGGGACTGG TCGCCGCACG TGTGGAAGGG CCGACAGGAT GTCAGGAGTC CTGAGATGAG GGAGTCGTCG CACCAGTGGC

1720       1730       1740       1750       1760       1770       1780       1790       1800
TGCCCTCCAG CAGCTTGGGC ACCCAGACCT ACATCTGCAA CGTGAATCAC AAGCCCAGCA ACACCAAGGT GGACAAGAAA GTTGGTGAGA
ACGGGAGGTC GTCGAACCCG TGGGTCTGGA TGTAGACGTT GCACTTAGTG TTCGGGTCGT TGTGGTTCCA CCTGTTCTTT CAACCACTCT
```

Figure 14B
(SEQ ID NO.: 10 – Primary Sequence)
(SEQ ID NO.: 28 – Complement)

pD17-cJ-dCH2.H1

```
        1810        1820        1830        1840        1850        1860        1870        1880        1890
  GGCCAGCACA  GGGAGGGAGG  GTGTCTGCTG  GAAGCCAGGC  TCAGCGCTCC  TGCCTGGACG  CATCCCGGCT  ATGCAGCCCC  AGTCCAGGGC
  CCGGTCGTGT  CCCTCCCTCC  CACAGACGAC  CTTCGGTCCG  AGTCGCGAGG  ACGGACCTGC  GTAGGGCCGA  TACGTCGGGG  TCAGGTCCCG

        1900        1910        1920        1930        1940        1950        1960        1970        1980
  AGCAAGGCAG  GCCCCGTCTG  CCTCTCACC   CGGAGGCCTC  TGCCCGCCCC  ACTCATGTC   AGGGAGAGGG  TCTTCTGGCT  TTTTCCCCAG
  TCGTTCCGTC  CGGGGCAGAC  GGAGAAGTGG  GCCTCCGGAG  ACGGGCGGGG  TGAGTACGAG  TCCCTCTCCC  AGAAGACCGA  AAAAGGGGTC

        1990        2000        2010        2020        2030        2040        2050        2060        2070
  GCTCTGGGCA  GGCACAGGCT  AGGTGCCCCT  AACCCAGGCC  CTGCACACAA  AGGGGCAGGT  GCTGGGCTCA  GACCTGCCAA  GAGCCATATC
  CGAGACCCGT  CCGTGTCCGA  TCCACGGGGA  TTGGGTCCGG  GACGTGTGTT  TCCCCGTCCA  CGACCCGAGT  CTGGACGGTT  CTCCGTATAG

        2080        2090        2100        2110        2120        2130        2140        2150        2160
  CGGGAGGACC  CTGCCCCTGA  CCTAAGCCCA  CCCCAAAGGC  CAAACTCTCC  ACTCCCTCAG  CTCGGACACC  TTCTCTCCTC  CCAGATTCCA
  GCCCTCCTGG  GACGGGGACT  GGATTCGGGT  GGGGTTTCCG  GTTTGAGAGG  TGAGGGAGTC  GAGCCTGTGG  AAGAGAGGAG  GGTCTAAGGT

        2170        2180        2190        2200        2210        2220        2230        2240        2250
  GTAACTCCCA  ATCTTCTCTC  TGCAGAGCCC  AAATCTTGTG  ACAAAACTCA  CACAATGCCCA CCGTGCCCAG  GTAAGCCAGC  CCAGGCCTCG
  CATTGAGGGT  TAGAAGAGAG  ACGTCTCGGG  TTTAGAACAC  TGTTTTGAGT  GTGTACGGGT  GGCACGGGTC  CATTCGGTCG  GGTCCGGAGC

        2260        2270        2280        2290        2300        2310        2320        2330        2340
  CCCTCCAGCT  CAAGGCGGGA  CAGGTGCCCT  AGAGTAGCCT  GCATCCAGGG  ACACACCACG  TGGGTACCAA  CATGTCCGGA  GCCACATGGA
  GGGAGGTCGA  GTTCCGCCCT  GTCCACGGGA  TCTCATCGGA  CGTAGGTCCC  TGTGTGGTGC  ACCCATGGTT  GTACAGGCCT  CGGTGTACCT

        2350        2360        2370        2380        2390        2400        2410        2420        2430
  CAGAGGCCGG  CTCGGCCCAC  CCTCTGCCCT  GGAGACGGGA  GCTGTACCAA  CCTCTGTCCC  TACAGGGCAG  CCCCGAGAAC  CACAGGTGTA
  GTCTCCGGCC  GAGCCGGGTG  GGAGACGGGA  CCTCTCACTGG CGACATGGTT  GGAGACAGGG  ATGTCCCGTC  GGGGCTCTTG  GTGTCCACAT

        2440        2450        2460        2470        2480        2490        2500        2510        2520
  CACCCTGCCC  CCATCCCGGG  ATGAGCTGAC  CAAGAACCAG  GTCAGCCTGA  CCTGCCTGGT  CAAAGGCTTC  TATCCCAGCG  ACATCGCCGT
  GTGGGACGGG  GGTAGGGCCC  TACTCGACTG  GTTCTTGGTC  CAGTCGGACT  GGACGGACCA  GTTTCCGAAG  ATAGGGTCGC  TGTAGGGGCA

        2530        2540        2550        2560        2570        2580        2590        2600        2610
  GGAGTGGGAG  AGCCGGGAGAA CAACTACAAG  ACCACGCCTC  CCGTGCTGGA  CTCCGACGGC  TCCTTCTTCC  TCTACAGCAA
  CCTCACCCTC  TCGTTACCCG  TTGTGATGTTC TGGTGCGGAG  GGCACGACCT  GAGGCTGCCG  AGGAAGAAGG  AGATGTCGTT

        2620        2630        2640        2650        2660        2670        2680        2690        2700
  GCTCACCGTG  GACAAGAGCA  GGTGGCAGCA  GGGGAACGTC  TTCTCATGCT  CCGTGATGCA  CACAACCACT  ACACCAGAAA
  CGAGTGGCAC  CTGTTCTCGT  CCACCGTCGT  CCCCTTGCAG  AAGAGTACGA  GGCACTACGT  GTGTTGGTGA  TGTGGTCTTT
```

Figure 14C
(SEQ ID NO.: 10 – Primary Sequence)
(SEQ ID NO.: 28 – Complement)

pD17-cJ-dCH2.H1

```
      2710        2720        2730        2740        2750        2760        2770        2780        2790
GAGCCCTCTCC  CTGTCTCCGG  GTAAATGAGT  GCGACGGCCG  GCAAGCCCCC  GCTCCCCGGG  CTCTCGCGGT  CGCACGAGGA  TGCTTGGCAC
CTCGGGAGAGG  GACAGAGGCC  CATTTACTCA  CGCTGCCGGC  CGTTCGGGGG  CGAGGGGCCC  GAGAGGGCCA  GCGTGCTCCT  ACGAACCGTG

      2800        2810        2820        2830        2840        2850        2860        2870        2880
GTACCCCCTG  TACATACTTC  CCGGGGCGCCC  AGCATGGAAA  TAAAGCACCC  AGCGGCTGCCC  TGGCCCCCTG  CGAGACTGTG  ATGGTTCTTT
CATGGGGGAC  ATGTATGAAG  GGCCCGCGGG  TCGTACCTTT  ATTTCGTGGG  TCGCGACGGG  ACCGGGGGAC  GCTCTGACAC  TACCAAGAAA

      2890        2900        2910        2920        2930        2940        2950        2960        2970
CCACGGGTCA  GGCCGAGTCT  GAGGCCTGAG  TGGCATGAGG  GAGGCAGAGC  GGGTCCCACT  GTCCCCACAC  TGGCCCAGGC  TGTCCAGGTG
GGTGCCCAGT  CCGGCTCAGA  CTCCGGACTC  ACCGTACTCC  CTCCGTCTCG  CCCAGGGTGA  CAGGGGTGTG  ACCGGGTCCG  ACACGTCCAC

      2980        2990        3000        3010        3020        3030        3040        3050        3060
TGCCTGGGCC  CCCTAGGGTG  GGGCTCAGCC  AGGGGCTGCC  CTCGGCAGGG  TGGGGGATTT  GCCAGCGTGG  CCCTCCCTCC  AGCAGCACCT
ACGGACCCCG  GGGATCCCAC  CCCGAGTCGG  TCCCCGACGG  GAGCCGTCCC  ACCCCCTAAA  CGGTCGCACC  GGGAGGGAGG  TCGTCGTGGA

      3070        3080        3090        3100        3110        3120        3130        3140        3150
GCCCTGGGCT  GGGCCACGGG  AAGCCCTAGG  AGCCCCTGGG  GACAGACACA  CAGCCCCTGC  CTCTGTAGGA  GACTGTCCTG  TTCTGTGAGC
CGGGACCCGA  CCCGGTGCCC  TTCGGGATCC  TCGGGGACCC  CTGTCTGTGT  GTCGGGGACG  GAGACATCCT  CTGACAGGAC  AAGACACTCG

      3160        3170        3180        3190        3200        3210        3220        3230        3240
GCCCCTGTCC  TCCCGACCTC  CATGCCCACT  CGGGGGCATG  CCTAGTCCAT  GTGCGTAGGG  ACAGGCCCTC  CCTCACCCAT  CTACCCCCAC
CGGGGACAGG  AGGGCTGGAG  GTACGGGTGA  GCCCCCGTAC  GGATCAGGTA  CACGCATCCC  TGTCCGGGAG  GGAGTGGGTA  GATGGGGGTG

      3250        3260        3270        3280        3290        3300        3310        3320        3330
GGCACTAACC  CCTGGCTGCC  CTGCCCAGCC  TCGCACCGGC  ATGGGGACAC  AACCGACTCC  GGGGACATGC  ACTCTCGGGC  CCTGTGGAGG
CCGTGATTGG  GGACCGACGG  GACGGGTCGG  AGCGTGGGCG  TACCCCTGTG  TTGGCTGAGG  CCCCTGTACG  TGAGAGCCCG  GGACACCTCC

      3340        3350        3360        3370        3380        3390        3400        3410        3420
GACTGGTGCA  GATGCCCACA  CACACACTCA  GCCCAGACCC  GTTCAACAAA  CCCCGCCACTG  AGGTTGGCCG  GCCACACGGC  CACCACACAC
CTGACCACGT  CTACGGGTGT  GTGTGTGAGT  CGGGTCTGGG  CAAGTTGTTT  GGGGCGGTGAC  TCCAACCGGC  CGGTGTGCCG  GTGGTGTGTG

      3430        3440        3450        3460        3470        3480        3490        3500        3510
ACACGTGCAC  GCCTCACACA  CGGAGCCTCA  CCCGGGGCGAA  CTGCACAGCA  CCCAGACCAG  AGCAAGGTCC  TCGCACACGT  GAACACTCCT
TGTGCACGTG  CGGAGTGTGT  GCCTCGGAGT  GGGCCCCGCTT  GACGTGTCGT  GGGTCTGGTC  TCGTTCCAGG  AGCGTGTGCA  CTTGTGAGGA

      3520        3530        3540        3550        3560        3570        3580        3590        3600
CGGACACAGG  CCCCCACGAG  CCCCACGCGG  CACCTCAAGG  CCCACGACCC  TCTTCGGCAGC  TTCTCCACAT  GCTGACCTGC  TCAGACAAAC
GCCTGTGTCC  GGGGGTGCTC  GGGGTGCGCC  GTGGAGTTCC  GGGTGCTGGG  AGAGCCGTCG  AAGAGGTGTA  CGACTGGACG  AGTCTGTTTG
```

Figure 14D
(SEQ ID NO.: 10 – Primary Sequence)
(SEQ ID NO.: 28 – Complement)

pD17-cJ-dCH2.H1

```
3610 CCAGCCCTCC   3620 TCTCACAAGG   3630 GTGCCCCTGC   3640 AGCCGCCACA   3650 GGATCACACA
     GGTCGGGAGG        AGAGTGTTCC        CACGGGGACG        TCGGCGGTGT        CCTAGTGTGT

3660 CACACACAGG   3670 CCACGTCACG   3680 TCCCTGGCCC   3690 TGGCCCACTT
     GTGTGTGTCC        GGTGCAGTGC        AGGGACCGGG        ACCGGGTGAA

3700 CCCAGTGCCG   3710 CCCTTCCCTG   3720 CAGGACGGAT   3730 CAGCCTCGAC   3740 TGTGCCTTCT
     GGGTCACGGC        GGGAAGGGAC        GTCCTGCCTA        GTCGGAGCTG        ACACGGAAGA

3750 AGTTGCCAGC   3760 CATCTGTTGT   3770 TTGCCCCTCC   3780 CCCGTGCCTT
     TCAACGGTCG        GTAGACAACA        AACGGGGAGG        GGGCACGGAA

3790 CCTTGACCCT   3800 GGAAGGTGCC   3810 ACTCCCACTG   3820 TCCTTCCCTA   3830 ATAAAATGAG
     GGAACTGGGA        CCTTCCACGG        TGAGGGTGAC        AGGAAAGGAT        TATTTTACTC

3840 GAAATTGCAT   3850 CGCATTGTCT   3860 GAGTAGGTGT   3870 CATTCTATTC
     CTTTAACGTA        GCGTAACAGA        CTCATCCACA        GTAAGATAAG

3880 TGGGGGGTGG   3890 GGTGGGGCAG   3900 GACAGCAAGG   3910 GGGAGGATTG   3920 GGAAGACAAT
     ACCCCCCACC        CCACCCCGTC        CTGTCGTTCC        CCCTCCTAAC        CCTTCTGTTA

3930 AGCAGGCATG   3940 CTGGGGATGC   3950 GGTGGGCTCT   3960 ATGGCTTCTG
     TCGTCCGTAC        GACCCCTACG        CCACCCGAGA        TACCGAAGAC

3970 AGGCGGAAAG   3980 AACCAGCTGG   3990 GGCTCTAGGG   4000 GGTATCCCCA   4010 CGCGCCCTGT
     TCCGCCTTTC        TTGGTCGACC        CCGAGATCCC        CCATAGGGGT        GCGCGGGACA

4020 AGCGGGCGAT   4030 TAAGCGCGGC   4040 GGGTGTGGTG   4050 GTTACGCGCA
     TCGCCCGCTA        ATTCGCGCCG        CCCACACCAC        CAATGCGCGT

4060 GGTGACCGGC   4070 TACACTTGCC   4080 AGCGCCCTAG   4090 CGCCCGCTCC   4100 TTTCGCTTTC
     CGCACTGGCG        ATGTGAACGG        TCGCGGGATC        GCGGGCGAGG        AAAGCGAAAG

4110 TTCCCTTCCT   4120 TTCTCGCCAC   4130 GTTCGCCGGG   4140 CCTCTCAAAA
     AAGGGAAGGA        AAGAGCGGTG        CAAGCGGCCC        GGAGAGTTTT

4150 AAGGGAAAAA   4160 AAGCATGCAT   4170 CTCAATTAGT   4180 CAGCAACCAT   4190 AGTCCCGCCC
     TTCCCTTTTT        TTCGTACGTA        GAGTTAATCA        GTCGTTGGTA        TCAGGGCGGG

4200 CTAACTCCGC   4210 CCATCCCGCC   4220 CCTAACTCCG   4230 CCCAGTTCCG
     GATTGAGGCG        GGTAGGGCGG        GGATTGAGGC        GGGTCAAGGC

4240 CCCATTCTCC   4250 GCCCCATGGC   4260 TGACTAATTT   4270 TTTTTATTTA   4280 TGCAGAGGCC
     GGGTAAGAGG        CGGGGTACCG        ACTGATTAAA        AAAAATAAAT        ACGTCTCCGG

4290 GAGGCCGCCT   4300 CGGCCTCTGA   4310 GCTATTCCAG   4320 AAGTAGTGAG
     CTCCGGCGGA        GCCGGAGACT        CGATAAGGTC        TTCATCACTC

4330 GAGGCTTTTT   4340 TGGAGGCCTA   4350 GGCTTTTGCA   4360 AAAAGCTTGG   4370 ACAGCTCAGG
     CTCCGAAAAA        ACCTCCGGAT        CCGAAAACGT        TTTTCGAACC        TGTCGAGTCC

4380 GCTGCGATTT   4390 CGCGCCAAAC   4400 TTGACGGCAA   4410 TCCTAGCGTG
     CGACGCTAAA        GCGCGGTTTG        AACTGCCGTT        AGGATCGCAC

4420 AAGGCTGGTA   4430 GGATTTTATC   4440 CCCGCTGCCA   4450 TCATGGTTCG   4460 ACCATTGAAC
     TTCCGACCAT        CCTAAAATAG        GGGCGACGGT        AGTACCAAGC        TGGTAACTTG

4470 TGCATCGTCG   4480 CCGTGTCCCA   4490 AAATATGGGG   4500 ATTGGCAAGA
     ACGTAGCAGC        GGCACAGGGT        TTTATACCCC        TAACCGTTCT
```

Figure 14E
(SEQ ID NO.: 10 – Primary Sequence)
(SEQ ID NO.: 28 – Complement)

pD17-cJ-dCH2.H1

```
4510 ACGGAGACCT   4600 TGGTGATTAT   4690 TCAAAGAACC
     TGCCTCTGGA        ACCACTAATA        AGTTTCTTGG
4520 ACCCTGGCCT   4610 GGGTAGGAAA   4700 ACCACGAGGA
     TGGGACCGGA        CCCATCCTTT        TGGTGCTCCT
4530 CCGCTCAGGA   4620 ACCTGGTTCT   4710 GCTCATTTTC
     GGCGAGTCCT        TGGACCAAGA        CGAGTAAAAG
4540 ACGAGTTCAA   4630 CCATTCCTGA   4720 TTGCCAAAAG
     TGCTCAAGTT        GGTAAGGACT        AACGGTTTTC
4550 GTACTTCCAA   4640 GAAGAATCGA   4730 TTTGGATGAT
     CATGAAGGTT        CTTCTTAGCT        AAACCTACTA
4560 AGAATGACCA   4650 CCTTTAAAGG   4740 GCCTTAAGAC
     TCTTACTGGT        GGAAATTTCC        CGGAATTCTG
4570 CAACCTCTTC   4660 ACAGAATTAA   4750 TTATTGAACA
     GTTGGAGAAG        TGTCTTAATT        AATAACTTGT
4580 AGTGGAAGGT   4670 TATAGTTCTC   4760 ACCGGAATTG
     TCACCTTCCA        ATATCAAGAG        TGGCCTTAAC
4590 AAACAGAATC   4680 AGTAGAGAAC   4770 GCAAGTAAAG
     TTTGTCTTAG        TCATCTCTTG        CGTTCATTTC

4780 TAGACATGGT   4870 TGCAGGAATT   4960 TCCAGGAGGA
     ATCTGTACCA        ACGTCCTTAA        AGGTCCTCCT
4790 TTGGATAGTC   4880 TGAAAGTGAC   4970 AAAAGGCATC
     AACCTATCAG        ACTTTCACTG        TTTTCCGTAG
4800 GGAGGCAGTT   4890 ACGTTTTTCC   4980 AAGTATAAGT
     CCTCCGTCAA        TGCAAAAAGG        TTCATATTCA
4810 CTGTTTACCA   4900 CAGAAATTGA   4990 TTGAAGTCTA
     GACAAATGGT        GTCTTTAACT        AACTTCAGAT
4820 GGAAGCCATG   4910 TTTGGGGAAA   5000 CGAGAAGAAA
     CCTTCGGTAC        AAACCCCTTT        GCTCTTCTTT
4830 AATCAACCAG   4920 TATAAACTTC   5010 GACTAACAGG
     TTAGTTGGTC        ATATTTGAAG        CTGATTGTCC
4840 GCCACCTTAG   4930 TCCCAGAATA   5020 AAGATGCTTT
     CGGTGGAATC        AGGGTCTTAT        TTCTACGAAA
4850 ACTCTTTGTG   4940 CCCAGGCGTC   5030 CAAGTCTCTC
     TGAGAAACAC        GGGTCCGCAG        GTTCAAGAGA
4860 ACAAGGATCA   4950 CTCTCTGAGG   5040 GCTCCCCTCC
     TGTTCCTAGT        GAGAGACTCC        CGAGGGGAGG

5050 TAAAGCTATG   5140 GGACAAACTA   5230 TGTATTTTAG
     ATTTCGATAC        CCTGTTTGAT        ACATAAAATC
5060 CATTTTTATA   5150 CCTACAGAGA   5240 ATTCCAACCT
     GTAAAAATAT        GGATGTCTCT        TAAGGTTGGA
5070 AGACCATGGG   5160 TTTAAAGCTC   5250 ATGGAACTGA
     TCTGGTACCC        AAATTTCGAG        TACCTTGACT
5080 ACTTTTGCTG   5170 TAAGGTAAAT   5260 TAAATGGGAG
     TGAAAACGAC        ATTCCATTTA        ATTTACCCTC
5090 GCTTTAGATC   5180 ATAAAATTTT   5270 CAGTGGTGGA
     CGAAATCTAG        TATTTTAAAA        GTCACCACCT
5100 TCTTTGTGAA   5190 TAAGTGTATA   5280 ATGCCTTTAA
     AGAAACACTT        ATTCACATAT        TACGGAAATT
5110 GGAACCTTAC   5200 ATGTGTTAAA   5290 TGAGGAAAAC
     CCTTGGAATG        TACACAATTT        ACTCCTTTTG
5120 TTCTGTGGTG   5210 CTACTGATTC   5300 CTGTTTTGCT
     AAGACACCAC        GATGACTAAG        GACAAAACGA
5130 TGACATAATT   5220 TAATTGTTTG   5310 CAGAAGAAAT
     ACTGTATTAA        ATTAACAAAC        GTCTTCTTTA

5320 GCCATCTAGT
     CGGTAGATCA
5330 GATGATGAGG
     CTACTACTCC
5340 CTACTGCTGA
     GATGACGACT
5350 CTCTCAACAT
     GAGAGTTGTA
5360 TCTACTCCTC
     AGATGAGGAG
5370 CAAAAAAGAA
     GTTTTTTCTT
5380 GAGAAAGGTA
     CTCTTTCCAT
5390 GAAGACCCCA
     CTTCTGGGGT
5400 AGGACTTTCC
     TCCTGAAAGG
```

Figure 14F
(SEQ ID NO.: 10 – Primary Sequence)
(SEQ ID NO.: 28 – Complement)

pD17-cJ-dCH2.H1

```
5410        5420        5430        5440        5450        5460        5470        5480        5490
TTCAGAATTG  CTAAGTTTTT  TGAGTCATGC  TGTGTTTAGT  AATAGAACTC  TTGCTTGCTT  TGCTATTTAC  ACCACAAAGG  AAAAAGCTGC
AAGTCTTAAC  GATTCAAAAA  ACTCAGTACG  ACACAAATCA  TTATCTTGAG  AACGAACGAA  ACGATAAATG  TGGTGTTTCC  TTTTTCGACG

5500        5510        5520        5530        5540        5550        5560        5570        5580
ACTGCTATAC  AAGAAAATTA  TGGAAAAATA  TTCGTGTAACC TTTATAAGTA  GGCATAACAG  TTATAATCAT  AACATACTGT  TTTTTCTTAC
TGACGATATG  TTCTTTTAAT  ACCTTTTTAT  AAGACATTGG  AAATATTCAT  CCGTATTGTC  AATATTAGTA  TTGTATGACA  AAAAGAAATG

5590        5600        5610        5620        5630        5640        5650        5660        5670
TCCACACAGG  CATAGAGTGT  CTGCTATTAA  TAACTATGCT  CAAAAATTGT  GTACCTTTAG  CTTTTTAATT  TGTAAAGGGG  TTAATAAGGA
AGGTGTGTCC  GTATCTCACA  GACGATAATT  ATTGATACGA  GTTTTTAACA  CATGGAAATC  GAAAAATTAA  ACATTCCCC   AATTATTCCT

5680        5690        5700        5710        5720        5730        5740        5750        5760
ATATTTGATG  TATAGTGCCT  TGACTAGAGA  TCATAATCAG  CCATACCACA  TTTGTAGAGG  TTTTACTTGC  TTTAAAAAAC  CTCCCACACC
TATAAACTAC  ATATCACGGA  ACTGATCTCT  AGTATTAGTC  GGTATGGTGT  AAACATCTCC  AAAATGAACG  AAATTTTTTG  GAGGGTGTGG

5770        5780        5790        5800        5810        5820        5830        5840        5850
TCCCCCTGAA  CCTGAAACAT  AAAATGAATG  CAATGTGTGT  TGTTAACTTG  TTTATTGCAG  CTTATAAATGG TTACAAATAA  AGCAATAGCA
AGGGGGACTT  GGACTTTGTA  TTTTACTTAC  GTTAACAACA  ACAATTGAAC  AAATAACGTC  GAATATTACC  AATGTTTATT  TCGTTATCGT

5860        5870        5880        5890        5900        5910        5920        5930        5940
TCACAAATTT  CACAAATAAA  GCATTTTTTT  CACTGCATTC  TAGTTGTGGT  TTGTCCAAAC  TCATCAATGT  ATCTTATCAT  GTCTGGATCG
AGTGTTTAAA  GTGTTTATTT  CGTAAAAAAA  GTGACGTAAG  ATCAACACCA  AACAGGTTTG  AGTAGTTACA  TAGAATAGTA  CAGACCTAGC

5950        5960        5970        5980        5990        6000        6010        6020        6030
GCTGGATGAT  CCTCCAGCGC  GGGGATCTCA  TGCTGGAGTT  CTTCGCCCAC  CCCAACTTGT  TTATTGCAGC  TTATAATGGT  TACAAATAAA
CGACCTACTA  GGAGGTCGCG  CCCCTAGAGT  ACGACCTCAA  GAAGCGGGTG  GGGTTGAACA  AATAACGTCG  AATATTACCA  ATGTTTATTT

6040        6050        6060        6070        6080        6090        6100        6110        6120
GCAATAGCAT  CACAAATTTC  ACAAATAAAG  CATTTTTTTC  ACTGCATTCT  AGTTGTGGTT  TGTCCAAACT  CATCAATGTA  TCTTATCATG
CGTTATCGTA  GTGTTTAAAG  TGTTTATTTC  GTAAAAAAAG  TGACGTAAGA  TCAACACCAA  ACAGGTTTGA  GTAGTTACAT  AGAATAGTAC

6130        6140        6150        6160        6170        6180        6190        6200        6210
TCTGTATACC  GTCGACCTCT  AGCTAGAGCT  TGGCGTAATC  ATGGTCATAG  CTGTTTCCTG  TGTGAAATTG  TTATCCGCTC  ACAATTCCAC
AGACATATGG  CAGCTGGAGA  TCGATCTCGA  ACCGCATTAG  TACCAGTATC  GACAAAGGAC  ACACTTTAAC  AATAGGCGAG  TGTTAAGGTG

6220        6230        6240        6250        6260        6270        6280        6290        6300
ACAACATACG  AGCCGGAAGC  ATAAAGTGTA  AAGCCTGGGG  TGCCTAATGA  TCACATTAAT  GTGAGCTAAC  TGCGTTGCGC  TCACTGCCCG
TGTTGTATGC  TCGGCCTTCG  TATTTCACAT  TTCGGACCCC  ACGGATTACT  AGTGTAATTA  CACTCGATTG  ACGCAACGCG  AGTGACGGGC
```

Figure 14G
(SEQ ID NO.: 10 – Primary Sequence)
(SEQ ID NO.: 28 – Complement)

pD17-eJ-dCH2.H1

```
6310       6320       6330       6340       6350       6360       6370       6380       6390
CTTCCAGTC  GGGAAACCTG TCGTGCCAGC TGCATTAATG AATCGGCCAA CGGCGGGGGA GAGGCGGTTT GCGTATTGGG CGCTCTTCCG
GAAGGTCAG  CCCTTTGGAC AGCACGGTCG ACGTAATTAC TTAGCCGGTT GCCGCCCCCT CTCCGCCAAA CGCATAACCC GCGAGAAGGC

6400       6410       6420       6430       6440       6450       6460       6470       6480
CTTCCTCGCT CACTGACTCG CTGCGCTCGG TCGTTCGGCT GCGGGCGAGCG GTATCAGCTC ACTCAAAGGC GGTAATACGG TTATCCACAG
GAAGGAGCGA GTGACTGAGC GACGCGAGCC AGCAAGCCGA CGCCGCTCGC CATAGTCGAG TGAGTTTCCG CCATTATGCC AATAGGTGTC

6490       6500       6510       6520       6530       6540       6550       6560       6570
AATCAGGGGA TAACGCAGGA AAGAACATGT GAGCAAAAGG CCAGCAAAAG GCCAGGAACC GTAAAAAGGC CGCGTTGCTG GCGTTTTTCC
TTAGTCCCCT ATTGCGTCCT TTCTTGTACA CTCGTTTTCC GGTCGTTTTC CGGTCCTTGG CATTTTTCCG GCGCAACGAC CGCAAAAAGG

6580       6590       6600       6610       6620       6630       6640       6650       6660
ATAGGCTCCG CCCCCCTGAC GAGCATCACA AAAATCGACG CTCAAGTCAG AGGTGGCGAA ACCCGACAGG ACTATAAAGA TACCAGGCGT
TATCCGAGGC GGGGGGACTG CTCGTAGTGT TTTTAGCTGC GAGTTCAGTC TCCACCGCTT TGGGCTGTCC TGATATTTCT ATGGTCCGCA

6670       6680       6690       6700       6710       6720       6730       6740       6750
TTCCCCCTGG AAGCTCCCTC GTGCGCTCTC CTGTTCCGAC CCTGCCGCTT ACCGGATACC TGTCCGCCTT TCTCCCTTCG GGAAGCGTGG
AAGGGGGACC TTCGAGGGAG CACGCGAGAG GACAAGGCTG GGACGGCGAA TGGCCTATGG ACAGGCGGAA AGAGGGAAGC CCTTCGCACC

6760       6770       6780       6790       6800       6810       6820       6830       6840
CGCTTTCTCA ATGCTCACGC TGTAGGTATC TCAGTTCGGT GTAGGTCGTT CGCTCCAAGC TGGGCTGTGT GCACGAACCC CCCGTTCAGC
GCGAAAGAGT TACGAGTGCG ACATCCATAG AGTCAAGCCA CATCCAGCAA GCGAGGTTCG ACCCGACACA CGTGCTTGGG GGGCAAGTCG

6850       6860       6870       6880       6890       6900       6910       6920       6930
CCGACCGCTG CGCCTTATCC GGTAACTATC GTCTTGAGTC CAACCCGGTA AGACACGACT TATCGCCACT GGCAGCAGCC ACTGGTAACA
GGCTGGCGAC GCGGAATAGG CCATTGATAG CAGAACTCAG GTTGGGCCAT TCTGTGCTGA ATAGCGGTGA CCGTCGTCGG TGACCATTGT

6940       6950       6960       6970       6980       6990       7000       7010       7020
GGATTAGCAG AGCGAGGTAT GTAGGCGGTG CTACAGAGTT CTTGAAGTGG TGGCCTTACT ACGGCTACAC TAGAAGGACA GTATTTGGTA
CCTAATCGTC TCGCTCCATA CATCCGCCAC GATGTCTCAA GAACTTCACC ACCGGAATGA TGCCGATGTG ATCTTCCTGT CATAAACCAT

7030       7040       7050       7060       7070       7080       7090       7100       7110
TCTGCGCTCT GCTGAAGCCA GTTACCTTCG GAAAAAGAGT TGGTAGCTCT TGATCCGGCA AACAAACCAC CGCTGGTAGC GGTGGTTTTT
AGACGCGAGA CGACTTCGGT CAATGGAAGC CTTTTTCTCA ACCATCGAGA ACTAGGCCGT TTGTTTGGTG GCGACCATCG CCACCAAAAA

7120       7130       7140       7150       7160       7170       7180       7190       7200
TTGTTTGCAA GCAGCAGATT ACCGCGCAGAA AAAAAGGATC TCAAGAAGAT CCTTTGATCT TTTCTACGGG GTCTGACGCT CAGTGGAACG
AACAAACGTT CGTCGTCTAA TGGCGCGTCTT TTTTTCCTAG AGTTCTTCTA GGAAACTAGA AAAGATGCCC CAGACTGCGA GTCACCTTGC
```

Figure 14H
(SEQ ID NO.: 10 – Primary Sequence)
(SEQ ID NO.: 28 – Complement)

pD17-cJ-dCH2.H1

```
7210        7220        7230        7240        7250        7260        7270        7280        7290
AAAACTCACG  TTAAGGGATT  TTGGTCATGA  GATTATCAAA  AAGGATCTTC  ACCTAGATCC  TTTTAAATTA  AAAATGAAGT  TTTAAATCAA
TTTTGAGTGC  AATTCCCTAA  AACCAGTACT  CTAATAGTTT  TTCCTAGAAG  TGGATCTAGG  AAAATTTAAT  TTTTACTTCA  AAATTTAGTT

7300        7310        7320        7330        7340        7350        7360        7370        7380
TCTAAAGTAT  ATATGAGTAA  ACTTGGTCTG  ACAGTTACCA  ATGCTAATC   AGTGAGGCAC  CTATCTCAGC  GATCTGTCTA  TTTCGTTCAT
AGATTTCATA  TATACTCATT  TGAACCAGAC  TGTCAATGGT  TACGAATTAG  TCACTCCGTG  GATAGAGTCG  CTAGACAGAT  AAAGCAAGTA

7390        7400        7410        7420        7430        7440        7450        7460        7470
CCATAGTTGC  CTGACTCCCC  GTCGTGTAGA  TAACTACGAT  ACGGGAGGGC  TTACCATCTG  GCCCCAGTGC  TGCAATGATA  CCGGCGAGACC
GGTATCAACG  GACTGAGGGG  CAGCACATCT  ATTGATGCTA  TGCCCTCCCG  AATGGTAGAC  CGGGGTCACG  ACGTTACTAT  GGCGCTCTGG

7480        7490        7500        7510        7520        7530        7540        7550        7560
CACGCTCACC  GGCTCCAGAT  TTATCAGCAA  TAAACCAGCC  AGCCGGAAGG  GCCGAGCGCA  GAAGTGGTCC  TGCAACTTTA  TCCGCCTCCA
GTGCGAGTGG  CCGAGGTCTA  AATAGTCGTT  ATTTGGTCGG  TCGGCCTTCC  CGGCTCGCGT  CTTCACCAGG  ACGTTGAAAT  AGGCGGAGGT

7570        7580        7590        7600        7610        7620        7630        7640        7650
TCCAGTCTAT  TAATTGTTGC  CGGGAAGCTA  GAGTAAGTAG  TTCGCCAGTT  AATAGTTTGC  GCAACGTTGT  TGCCATTGCT  ACAGGCATCG
AGGTCAGATA  ATTAACAACG  GCCCTTCGAT  CTCATTCATC  AAGCGGTCAA  TTATCAAACG  CGTTGCAACA  ACGGTAACGA  TGTCCGTAGC

7660        7670        7680        7690        7700        7710        7720        7730        7740
TGGTGTCACG  CTCGTCGTTT  GGTATGGCTT  CATTCAGCTC  CGGTTCCCAA  CGATCAAGGC  GAGTTACATG  ATCCCCCATG  TTGTGCAAAA
ACCACGTGC   GAGCAGCAAA  CCATACCGAA  GTAAGTCGAG  GCCAAGGGTT  GCTAGTTCCG  CTCAATGTAC  TAGGGGGTAC  AACACGTTTT

7750        7760        7770        7780        7790        7800        7810        7820        7830
AAGCGGTTAG  CTCCTTCGGT  CCTCCGATCG  TTGTCAGAAG  TAAGTTGGCC  GCAGTGTTAT  CACTCATGGT  TATGGCAGCA  CTGCATAATT
TTCGCCAATC  GAGGAAGCCA  GGAGGCTAGC  AACAGTCTTC  ATTCAACCGG  CGTCACAATA  GTGAGTACCA  ATACCGTCGT  GACGTATTAA

7840        7850        7860        7870        7880        7890        7900        7910        7920
CTCTTACTGT  CATGCCATCC  GTAAGATGCT  TTTCTGTGAC  TGGTGAGTAC  TCAACCAAGT  CATTCTGAGA  ATAGTGTATG  CGGGGACCGA
GAGAATGACA  GTACCGTAGG  CATTCTACGA  AAAGACACTG  ACCACTCATG  AGTTGGTTCA  GTAAGACTCT  TATCACATAC  GCCCGCTGGCT

7930        7940        7950        7960        7970        7980        7990        8000        8010
GTTGCTCTTG  CCCGGCGTCA  ATACGGGATA  ATACCGCGCC  ACATAGCAGA  ACTTTAAAAG  TGCTCATCAT  TGGAAAACGT  TCTTCGGGGC
CAACGAGAAC  GGGCCGCAGT  TATGCCCTAT  TATGGCGCGG  TGTATCGTCT  TGAAATTTTC  ACGAGTAGTA  ACCTTTTGCA  AGAAGCCCCG

8020        8030        8040        8050        8060        8070        8080        8090        8100
GAAAACTCTC  AAGGATCTTA  CCGCTGTTGA  GATCCAGTTC  GATGTAACCC  ACTCGTGCAC  CCAACTGATC  TTCAGCATCT  TTTACTTTCA
CTTTTGAGAG  TTCCTAGAAT  GGCGACAACT  CTAGGTCAAG  CTACATTGGG  TGAGCACGTG  GGTTGACTAG  AAGTCGTAGA  AAATGAAAGT
```

Figure 14I
(SEQ ID NO.: 10 – Primary Sequence)
(SEQ ID NO.: 28 – Complement)

pD17-cJ-dCH2.H1

```
        8110       8120       8130       8140       8150       8160       8170       8180       8190
CCAGCGTTTC TGGGTGAGCA AAAACAGGAA GGCAAAATGC CGCAAAAAAG GGAATAAGGG CGACACGGAA ATGTTGAATA CTCATACTCT
GGTCGCAAAG ACCCACTCGT TTTTGTCCTT CCGTTTTACG GCGTTTTTTC CCTTATTCCC GCTGTGCCTT TACAACTTAT GAGTATGAGA

        8200       8210       8220       8230       8240       8250       8260       8270       8280
TCCTTTTTCA ATATTATTGA AGCATTTATC AGGGTTATTG TCTTCATGAGC GGATACATAT TTGAATGTAT TTAGAAAAAT AAACAAATAG
AGGAAAAAGT TATAATAACT TCGTAAATAG TCCCAATAAC AGAGTACTCG CCTATGTATA AACTTACATA AATCTTTTTA TTTGTTTATC

        8290       8300       8310       8320       8330
GGGTTCCGCG CACATTTCCC CGAAAAGTGC CACCTGACGT C
CCCAAGGCGC GTGTAAAGGG GCTTTTTCACG GTGGACTGCA G
```

Figure 14J
(SEQ ID NO.: 10 – Primary Sequence)
(SEQ ID NO.: 28 – Complement)

Figure 19A
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1b

```
        10         20         30         40         50         60
GGTACCAATT TAAATTGATA TCTCCTTAGG TCTCGAGTCT CTAGATAACC GGTCAATCGA
CCATGGTTAA ATTTAACTAT AGAGGAATCC AGAGCTCAGA GATCTATTGG CCAGTTAGCT

        70         80         90        100        110        120
TTGGAATTCT TGCGGCCGCT TGCTAGCACC AAGGGCCCAT CGGTCTTCCC CCTGGCACCC
AACCTTAAGA ACGCCGGCGA ACGATCGTGG TTCCCGGGTA GCCAGAAGGG GGACCGTGGG

       130        140        150        160        170        180
TCCTCCAAGA GCACCTCTGG GGGCACAGCG GCCCTGGGCT GCCTGGTCAA GGACTACTTC
AGGAGGTTCT CGTGGAGACC CCCGTGTCGC CGGGACCCGA CGGACCAGTT CCTGATGAAG

       190        200        210        220        230        240
CCCGAACCGG TGACGGTGTC GTGGAACTCA GGCGCCCTGA CCAGCGGCGT GCACACCTTC
GGGCTTGGCC ACTGCCACAG CACCTTGAGT CCGCGGGACT GGTCGCCGCA CGTGTGGAAG

       250        260        270        280        290        300
CCGGCTGTCC TACAGTCCTC AGGACTCTAC TCCCTCAGCA GCGTGGTCAC CGTGCCCTCC
GGCCGACAGG ATGTCAGGAG TCCTGAGATG AGGGAGTCGT CGCACCAGTG GCACGGGAGG

       310        320        330        340        350        360
AGCAGCTTGG GCACCCAGAC CTACATCTGC AACGTGAATC ACAAGCCCAG CAACACCAAG
TCGTCGAACC CGTGGGTCTG GATGTAGACG TTGCACTTAG TGTTCGGGTC GTTGTGGTTC

       370        380        390        400        410        420
GTGGACAAGA AAGTTGGTGA GAGGCCAGCA CAGGGAGGGA GGGTGTCTGC TGGAAGCCAG
CACCTGTTCT TTCAACCACT CTCCGGTCGT GTCCCTCCCT CCCACAGACG ACCTTCGGTC

       430        440        450        460        470        480
GCTCAGCGCT CCTGCCTGGA CGCATCCCGG CTATGCAGCC CCAGTCCAGG GCAGCAAGGC
CGAGTCGCGA GGACGGACCT GCGTAGGGCC GATACGTCGG GGTCAGGTCC CGTCGTTCCG

       490        500        510        520        530        540
AGGCCCCGTC TGCCTCTTCA CCCGGGAGGC TCTGCCCGCC CCACTCATGC TCAGGGAGAG
TCCGGGGCAG ACGGAGAAGT GGGCCCTCCG AGACGGGCGG GGTGAGTACG AGTCCCTCTC

       550        560        570        580        590        600
GGTCTTCTGG CTTTTTCCCC AGGCTCACAGG CAGGCACAGG CTAGGTGCCC TCTAACCCAGG
CCAGAAGACC GAAAAAGGGG TCCGAGACCC GTCCGTGTCC GATCCACGGG GATTGGGTCC
```

Figure 19B
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1-1b

```
        610        620        630        640        650        660
 CCCTGCACAC AAAGGGGCAG GTGCTGGGGCT CAGACCTGCC AAGAGCCATA TCCGGGGAGGA
 GGGACGTGTG TTTCCCCGTC CACGACCCGA  GTCTGGACGG TTCTCGGTAT AGGCCCTCCT

        670        680        690        700        710        720
 CCCTGCCCCT GACCTAAGCC CACCCCAAAG CCACTCCCTC AGCTCGGACA
 GGGACGGGGA CTGGATTCGG GTGGGGTTTC GGTGAGGGAG TCGAGCCTGT

        730        740        750        760        770        780
 CCTTCTCTCC TCCCAGATTC CAGTAACTCC CAATCTTCTC TCTGCAGAGC CCAAATCTTG
 GGAAGAGAGG AGGGTCTAAG GTCATTGAGG GTTAGAAGAG AGACGTCTCG GGTTTAGAAC

        790        800        810        820        830        840
 TGACAAAACT CACACATGCC AGGTAAGCCA GCCCAGGCCT CGCCCCTTCCAG CAGCCCTTCCAG
 ACTGTTTTGA GTGTGTACGG TCCATTCGGT CGGGTCCGGA GCGGGAGGTC  GCGGGAGGTC

        850        860        870        880        890        900
 CTCAAGGCGG GACAGGTGCC CTAGAGTAGC CTGCATCCAG GGACAGGCCC CAGCCGGGTG
 GAGTTCCGCC CTGTCCACGG GATCTCATCG GACGTAGGTC CCTGTCCGGG GTCGGCCCAC

        910        920        930        940       950  235   960  237
 CTGACACGTC CACCTCCATC TCTTCCTCAG CACCTGAACT  CCTGGGGGA   CCGTCAGTCT
 GACTGTGCAG GTGGAGGTAG AGAAGGAGTC GTGGACTTGA  GGACCCCCT   GGCAGTCAGA

        970        980        990       1000       1010       1020
 TCCTCTTCCC CCCAAAACCC AAGGACACCC TCATGATCTC CCGGACCCCT GAGGTCACAT
 AGGAGAAGGG GGGTTTTGGG TTCCTGTGGG AGTACTAGAG GGCCTGGGGA CTCCAGTGTA

       1030       1040       1050       1060       1070       1080
 GCGTGGGTGCT GGACGTGAGC CACGAAGACC CTGAGGTCAA GTTCAACTGG TACGTGGACG
 CGCACCCACA  CCTGCACTCG GTGCTTCTGG GACTCCAGTT CAAGTTGACC ATGCAACTGC

       1090       1100       1110       1120       1130       1140
 GCGTGGAGGT GCATAATGCC AAGACAAAGC CGCGGGGAGGA GCAGTACAAC AGCACGTACC
 CGCACCTCCA CGTATTACGG TTCTGTTTCG GCGCCCCTCCT CGTCATGTTG TCGTGCATGG

       1150       1160       1170       1180      1190  318  1200  320
 CTCTGGTCAG CGTCCTGCACC AGGACTGGCT GAATGGCAAG  GAGTACAAGT
 CACACCACTC GCAGGACGTGG TCCTGACCGA CTTACCGTTC  CTCATGTTCA
```

Figure 19C
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1b

```
        1210        1220        1230/1231    1240        1250        1260
GCAAGGTCTC  CAACAAAGCC  CTCCCAGCCC  CCATCGAGAA  AACCATCTCC  AAAGCCAAAG
CGTTCCAGAG  GTTGTTTCGG  GAGGGTCGGG  GGTAGCTCTT  TTGGTAGAGG  TTTCGGTTTC

        1270        1280        1290        1300        1310        1320
GTGGGGACCCG TGGGGTGCGA GGGCCACATG GACAGAGGCC GGCTCGGCCC ACCCTCTGCC
CACCCTGGGC  ACCCCACGCT  CCCGGTGTAC  CTGTCTCCGG  CCGAGCCGGG  TGGGAGACGG

        1330        1340        1350        1360        1370        1380
CTGAGAGTGA  CCGGCTGGTACC AACCTCTGTC CCTACAGGGC AGCCCCGAGA ACCACAGGTG
GACTCTCACT  GGCGACATGG  TTGGAGACAG GGATGTCCCG TCGGGGCTCT TGGTGTCCAC

        1390        1400        1410        1420        1430        1440
TACACCCTGC  CCCCATCCCG  GGATGAGCTG  ACCAAGAACC  AGGTCAGCCT  GACCTGCCTG
ATGTGGGACG  GGGGTAGGGC  CCTACTCGAC  TGGTTCTTGG  TCCAGTCGGA  CTGGACGGAC

        1450        1460        1470        1480        1490        1500
GTCAAAGGCT  TCTATCCCAG  CGACATCGCC  GTGGAGTGGG  AGAGCAATGG  GCAGCCGGAG
CAGTTTCCGA  AGATAGGGTC  GCTGTAGCGG  CACCTCACCC  TCTCGTTACC  CGTCGGCCTC

        1510        1520        1530        1540        1550        1560
AACAACTACA  AGACCACGCC  TCCCGTGCTG  GACTCCGACG  GCTCCTTCTT  CCTCTACAGC
TTGTTGATGT  TCTGGTGCGG  AGGGCACGAC  CTGAGGCTGC  CGAGGAAGAA  GGAGATGTCG

        1570        1580        1590        1600        1610        1620
AAGCTCACCG  TGGACAAGAG  CAGGTGGCAG  CAGGGGAACG  TCTTCTCATG  CTCCGTGATG
TTCGAGTGGC  ACCTGTTCTC  GTCCACCGTC  GTCCCCTTGC  AGAAGAGTAC  GAGGCACTAC

        1630        1640        1650        1660        1670        1680
CATGAGGCTC  TGCACAACCA  CTACACGCAG  AAGAGCCTCT  CCCTGTCTCC  GGGTAAATGA
GTACTCCGAG  ACGTGTTGGT  GATGTGCGTC  TTCTCGGAGA  GGGACAGAGG  CCCATTTACT

        1690        1700        1710        1720        1730        1740
GTGGGACGGC  CGGCTAAGCCC CCGCTCCTCCG GGCTCTTCGCG GTCGGCACGAG GATGCTTGGC
CACCGCTGCCG GCCGATTCGGG GGCGAGGGGC CCGAGAGCGC CAGCGTGCTC CTACGAACCG

        1750        1760        1770        1780        1790        1800
ACGTACCCCC  TGTTACATACT TCCCGGGGCGC AATAAAGCAC CCAGGCTGC CCAGGCGCTGC
TGCATGGGGG  ACATGTATGA  AGGGCCCGCG  GGTCGGCTACCT GGTCGCGACG
```

Figure 19D
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1b

```
         1810       1820       1830       1840       1850       1860
CCTGGGCCCC TGCGAGACTG TGATGGTTCT TTCCACGGGT CAGGCCGAGT CTGAGGCCTG
GGACCCGGGG ACGCTCTGAC ACTACCAAGA AAGGTGCCCA GTCCGGCTCA GACTCCGGAC

         1870       1880       1890       1900       1910       1920
AGTGGCATGA GGGAGGCAGA GCGGGGTCCCA CTGTCCCCAC ACTGGCCCAG GCTGTGCAGG
TCACCGTACT CCCTCCGTCT CGCCCAGGGT GACAGGGGTG TGACCGGGTC CGACACGTCC

         1930       1940       1950       1960       1970       1980
TGTGCCTGGG CCCCCTAGGG TGGGGCTCAG CCAGGGGCTG CCCTCGGCAG GGTGGGGGAT
ACACGGACCC GGGGGATCCC ACCCCGAGTC GGTCCCCGAC GGGAGCCGTC CCACCCCCTA

         1990       2000       2010       2020       2030       2040
TTGCCAGCGT GGCCCTCCCT CCAGCAGCAC CTGCCCTGGG CTGGGCCCACG GGAAGCCCTA
AACGGTCGCA CCGGGAGGGA GGTCGTCGTG GACGGGACCC GACCCGGTGC CCTTCGGGAT

         2050       2060       2070       2080       2090       2100
GGAGCCCCTG GGGACAGACA CACAGCCCCT GCCTCTGTAG GAGAGCTGTCC TGTTCTGTGA
CCTCGGGGAC CCCTGTCTGT GTGTCGGGGA CGGAGACATC CTCTGACAGG ACAAGACACT

         2110       2120       2130       2140       2150       2160
GCGCCCCTGT CCTCCCGACC TCCATGCCCA CTCGGGGGCA TGCTGGGGAT GCGGGTGGGCT
CGCGGGGACA GGAGGGCTGG AGGTACGGGT GAGCCCCCGT ACGACCCCTA CGCCCACCGA

         2170       2180       2190       2200       2210       2220
CTATGGCTTC TGAGGGCGGAA AGAACCAGCT GGGGCTGTAG GGGGTATCC CACGCGCCCT
GATACCGAAG ACTCCGCCTT TCTTGGTCGA CCCCGAGATC CCCCATAGGG GTTGCGGGGA

         2230       2240       2250       2260       2270       2280
GTAGCGGCGC ATTAAGCGCG GCGGGTGTGG TGGTTACGCG CAGGCGTGAGC GCTACACTTG
CATCGCCGCG TAATTCGCGC CGCCCACACC ACCAATGCGC GTCGCACTCG CGATGTGAAC

         2290       2300       2310       2320       2330       2340
CCAGCGCGCCT AGCGCCCGCT CCTTTCGCTT TCTTCCCTTC CTTTCTCGCC ACGTTCGCCG
GGTCCGCGGA TCGCGGGCGA GGAAAGCGAA AGAAGGGAAG GAAAGAGCGG TGCAAGCGGC

         2350       2360       2370       2380       2390       2400
GCTTTCCCCG TCAAGCTCTA AATCGGGGCA GTTCCGATTT AGTGCTTTAC
CGAAAGGGGC AGTTCGAGAT TTAGCCCCGT CAAGGCTAAA TCACGAAATG
```

Figure 19E
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1b

```
2410  GGCACCTCGA   2420  CCCCAAAAAA   2430  CTTGATTAGG   2440  GTGATGGTTC   2450  ACGTAGTGGG   2460  CCATCGCCCT
      CCCTGGAGCT         GGGGTTTTTT         GAACTAATCC         CACTACCAAG         TGCATCACCC         GGTAGCGGGA

2470  GATAGACGGT   2480  TTTTCGCCCT   2490  TTGACGTTGG   2500  AGTCCACGTT   2510  CTTTAATAGT   2520  GGACTCTTGT
      CTATCTGCCA         AAAAGCGGGA         AACTGCAACC         TCAGGTGCAA         GAAATTATCA         CCTGAGAACA

2530  TCCAAACTGG   2540  AACAACACTC   2550  AACCCTATTC   2560  CGGTCTATTC   2570  TTTTGATTTA   2580  TAAGGGATTT
      AGGTTTGACC         TTGTTGTGAG         TTGGGATAGA         GCCAGATAAG         AAAACTAAAT         ATTCCCTAAA

2590  TGGGGGATTTC  2600  GGCCTATTGG   2610  TTAAAAAATG   2620  AGCTGATTTA   2630  ACAAAAATTT   2640  AACGGCGAATT
      ACCCCTAAAG         CCGGATAACC         AATTTTTTAC         TCGACTAAAT         TGTTTTTAAA         TTGCGCTTAA

2650  AATTCTGTGG   2660  AATGTGTGTC   2670  AGTTAGGGTG   2680  TGGAAAGTCC   2690  CCAGGCTCCC   2700  CAGGCAGGCA
      TTAAGACACC         TTACACACAG         TCAATCCCAC         ACCTTTCAGG         GGTCCGAGGG         GTCCGTCCGT

2710  GAAGTATGCA   2720  AAGCATGCAT   2730  CTCAAATAGT   2740  CAGCAACCAT   2750  AGTCCCGCCC   2760  CTAACTCCGC
      CTTCATACGT         TTCGTACGTA         GAGTTTATCA         GTCGTTGGTA         TCAGGGCGGG         GATTGAGGCG

2770  CCATCCCGCC   2780  CCTAACTCCG   2790  CCCAGTTCCG   2800  CCCATTCTCC   2810  GCCCCATGGC   2820  TTGACTAATTT
      GGTAGGGCGG         GGATTGAGGC         GGGTCAAGGC         GGGTAAGAGG         CGGGGTACCG         AACTGATTAAA

2830  TTTTTATTTA   2840  TGCAGAGGCC   2850  GAGGCGCGCT   2860  CGGCCTCTGA   2870  GCTATTCCAG   2880  AAGTAGTGAG
      AAAAATAAAT         ACGTCTCCGG         CTCCGCGCGA         GCCGGAGACT         CGATAAGGTC         TTCATCACTC

2890  GAGGCTTTTT   2900  TGGAGGCCTA   2910  GGCTTTTGCA   2920  AAAAGCTTGG   2930  ACAGCTCAGG   2940  GCTGCGGATTT
      CTCCGAAAAA         ACCTCCGGAT         CCGAAAACGT         TTTTCGAACC         TGTCGAGTCC         CGACGCCTAAA

2950  CGGGCCAAAC   2960  TTGACGGGCAA 2970  TCCTAGCGGTG  2980  AAGGCTGGTA   2990  GGATTTTATC   3000  CCCGCTGCCA
      GCGGGGTTTG         AACTGCCCGTT        AGGATCGCCAC         TTCCGACCAT         CCTAAAATAG         GGGCGACGGT
```

Figure 19F
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1b

```
      3010        3020        3030        3040        3050        3060
TCATGGTTCG  ACCATTGAAC  TGCATCGTCG  CCGTGTCCCA  AAATATGGGG  ATTGGCAAGA
AGTACCAAGC  TGGTAACTTG  ACGTAGCAGC  GGCACAGGGT  TTTATACCCC  TAACCGTTCT

      3070        3080        3090        3100        3110        3120
ACGGAGACCT  ACCCTGGCCT  CCGCTCAGGA  ACGAGTTCAA  GTACTTCCAA  AGAATGACCA
TGCCTCTGGA  TGGGACCGGA  GGCGAGTCCT  TGCTCAAGTT  CATGAAGGTT  TCTTACTGGT

      3130        3140        3150        3160        3170        3180
CAACCTCTTC  AGTGGAAGGT  AAACAGAATC  TGGTGATTAT  GGGTAGGAAA  ACCTGGTTCT
GTTGGAGAAG  TCACCTTCCA  TTTGTCTTAG  ACCACTAATA  CCCATCCTTT  TGGACCAAGA

      3190        3200        3210        3220        3230        3240
CCATTCCTGA  GAAGAATCGA  CCTTTAAAGG  ACAGAATTAA  TATAGTTCTC  AGTAGAGAAC
GGTAAGGACT  CTTCTTAGCT  GGAAATTCC   TGTCTTAATT  ATATCAAGAG  TCATCTCTTG

      3250        3260        3270        3280        3290        3300
TCAAAGAACC  ACCACGAGGA  GCTCATTTTC  TTGCCAAAAG  TTTGGATGAT  GCCTTAAGAC
AGTTTCTTGG  TGGTGCTCCT  CGAGTAAAAG  AACGGTTTTC  AAACCTACTA  CGGAATTCTG

      3310        3320        3330        3340        3350        3360
TTATTGAACA  ACCGGAATTG  GCAAGTAAAG  TAGACATGGT  TTGGATAGTC  GGAGGCAGTT
AATAACTTGT  TGGCCTTAAC  CGTTCATTTC  ATCTGTACCA  AACCTATCAG  CCTCCGTCAA

      3370        3380        3390        3400        3410        3420
CTGTTTTACCA  GGAAGCCATG  AATCAACCAG  GCCACCTTAG  ACTCTTTGTG  ACAAGGATCA
GACAAATGGT  CCTTCGGTAC  TTAGTTGGTC  CGGTGGAATC  TGAGAAACAC  TGTTCCTAGT

      3430        3440        3450        3460        3470        3480
TGCAGGAATT  TGAAAGTGAC  ACGTTTTTCC  CAGAAATTGA  TTTGGGGAAA  TATAAACTTC
ACGTCCTTAA  ACTTTCACTG  TGCAAAAAGG  GTCTTTAACT  AAACCCCTTT  ATATTTGAAG

      3490        3500        3510        3520        3530        3540
TCCCAGAATA  CCCAGGCGTC  CTCTCTGAGG  TCCAGGAGGA  AAAAGGCATC  AAGTATAAGT
AGGGTCTTAT  GGGTCCGCAG  GAGAGACTCC  AGGTCCTCCT  TTTTCCGTAG  TTCATATTCA

      3550        3560        3570        3580        3590        3600
TTGAAGTCTA  CGAGAAGAAA  GACTAACAGG  AAGATGCTTT  CAAGTTCTCT  GCTCCCCTCC
AACTTCAGNT  GCTCTTCTTT  CTGATTGTCC  TTCTACGAAA  GTTCAAGAGA  CGAGGGGAGG
```

Figure 19G
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1b

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      3610       3620       3630       3640       3650       3660
TAAAGCTATG CATTTTTATA AGACCATGGG ACTTTTGCTG GCTTTAGATC TCTTTGTGAA
ATTTCGATAC GTAAAAATAT TCTGGTACCC TGAAAACGAC CGAAATCTAG AGAAACACTT

      3670       3680       3690       3700       3710       3720
GGAACCTTAC TTCTGTGGTG TGACATAATT GGACAAACTA CCTACAGAGA TTTAAAGCTC
CCTTGGAATG AAGACACCAC ACTGTATTAA CCTGTTTGAT GGATGTCTCT AAATTTCGAG

      3730       3740       3750       3760       3770       3780
TAAGGTAAAT ATAAAAATTT TAAGTAGTATA ATGTGTTAAA CTACTGATTC TTAATTGTTTG
ATTCCATTTA TATTTTAAAA ATTCACATAT TACACAATTT GATGACTAAG AATTAACAAAC

      3790       3800       3810       3820       3830       3840
TGTATTTTAG ATTCCAACCT ATGGAACTGA TGAATGGGAG CAGTGGTTGA ATGCCTTTAA
ACATAAAATC TAAGGTTGGA TACCTTGACT ACTTACCCTC GTCACCAACT TACGGAAATT

      3850       3860       3870       3880       3890       3900
TGAGGAAAAC CTGTTTTTGCT GCCATCTAGT GATGATGGAG GATGATGCTGA CTACTGCTGA
ACTCCTTTTG GACAAAAACGA CGGTAGATCA CTACTACTCC GATGACGACT

      3910       3920       3930       3940       3950       3960
CTCTCAACAT TCTACTCCTC CAAAAAAGAA GAGAAAGGTA GAAGACCCCA AGGACTTTCC
GAGAGTTGTA AGATGAGGAG GTTTTTTCTT CTCTTTCCAT TCCTGGGGGT TCCTGAAAGG

      3970       3980       3990       4000       4010       4020
TTCAGAATTG CTAAGTTTTT TGAGTCATGC TGTGTTTAGT AATAGAACTC TTGCTTGCTT
AAGTCTTAAC GATTCAAAAA ACTCAGTACG ACACAAATCA TTATCTTGAG AACGAACGAA

      4030       4040       4050       4060       4070       4080
TGCTATTTAC ACCACAAAGG AAAAAGCTGC ACTGCTATAC AAGAAAAATTA TGGAAAAATA
ACGATAAATG TGGTGTTTCC TTTTTCGACG TGACGATATG TTCTTTTTAAT ACCTTTTTAT

      4090       4100       4110       4120       4130       4140
TTCTGTAACC TTTATAAGTA GGCATAAACAG TTATAATCAT AACATACTGT TTTTTTCTTAC
AAGACATTGG AAATATTCAT CCGTATTGTC AATATTAGTA TTGTATGACA AAAAAGAATG

      4150       4160       4170       4180       4190       4200
TCCACACAGG CATAGAGTGT CTGCTATTAA TAACTATGCT CAAAAATTGT GTACCTTTAG
AGGTGTGTCC GTATCTCACA GACGATAATT ATTGATACGA GTTTTTAACA CATGGAAATC
```

Figure 19H
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1b

```
4210        4220        4230        4240        4250        4260
CTTTTTAATT  TGTAAAGGGG  TTAATAAGGA  ATATTTGATG  TATAGTGCCT  TGACTAGAGA
GAAAAATTAA  ACAATTCCCC  AATTATTCCT  TATAAACTAC  ATATCACGGA  ACTGATCTCT

4270        4280        4290        4300        4310        4320
TCATAATCAG  CCATACCACA  TTTGTAGAGG  TTTTACTTGC  TTTAAAAAAC  CTCCCACACC
AGTATTAGTC  GGTATGGTGT  AAACATCTCC  AAAATGAACG  AAATTTTTTG  GAGGGTGTGG

4330        4340        4350        4360        4370        4380
TCCCCCTGAA  CCTGAAACAT  AAAATGAATG  CAATTGTTGT  TGTTAACTTG  TTTATTGCAG
AGGGGGACTT  GGACTTTGTA  TTTTACTTAC  GTTAACAACA  ACAATTGAAC  AAATAAACGTC

4390        4400        4410        4420        4430        4440
CTTATAAATGG  TTACAAATAA  AGCAAATAGCA  TCACAAATTT  CACAAAATAAA  GCATTTTTTT
GAATATTACC  AATGTTTATT  TCGTTTATCGT  AGTGTTTAAA  GTGTTTATTT  CGTAAAAAAA

4450        4460        4470        4480        4490        4500
CACTGCATTC  TAGTTGTGGT  TTGTCCAAAC  TCATCAATGT  ATCTTATCAT  GTCTGGATCG
GTGACGTAAG  ATCAACACCA  AACAGGTTTG  AGTAGTTACA  TAGAATAGTA  CAGACCTAGC

4510        4520        4530        4540        4550        4560
GCTGGATGAT  CCTCCAGCGC  GGGGATCTCA  TGCTGGAGTT  CTTCGCCCAC  CCCAACTTGT
CGACCTACTA  GGAGGTCGCG  CCCCTAGAGT  ACGACCTCAA  GAAGCGGGTG  GGGTTGAACA

4570        4580        4590        4600        4610        4620
TTATTGCAGC  TTATAAATGGT  TACAAATATAA  GCAATAGCAT  CACAAATTTC  ACAAAATAAAG
AATAACGTCG  AATATTTACCA  ATGTTTATATT  CGTTATCGTA  GTGTTTAAAG  TGTTTTATTTC

4630        4640        4650        4660        4670        4680
CATTTTTTTC  ACTGCATTCT  AGTTGTGGTT  TGTCCAAACT  CATCAATGTA  TCTTATCATG
GTAAAAAAG  TGACGTAAGA  TCAACACCAA  ACAGGTTTGA  GTAGTTACAT  AGAATAGTAC

4690        4700        4710        4720        4730        4740
TCTGTATACC  GTCGACCTCT  AGCTAGAGCT  TGGCGTAATC  ATGGTCATAG  CTGTTTCCTG
AGACATATGG  CAGCTGGAGA  TCGATCTCGA  ACCGCATTAG  TACCAGTATC  GACAAAGGAC

4750        4760        4770        4780        4790        4800
TGTGAAATTG  TTATCCGCTC  ACAATTCCAC  AGCCGGAAGC  ATAAAGTGTA
AGACATATGG  CAGCTGGAGA  TCGATCTCGA  ACCGCATTAG  TACCAGTATC  GACAAAGGAC
ACACTTTAAC  AATAGGCGAG  TGTTAAGGTG  TCGGCCTTCG  TATTTCACAT
```

Figure 19I
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1b

```
        4810         4820         4830         4840         4850         4860
  AAGCCTGGGG   TGCCTAATGA   GTGAGCTAAC   TCACATTAAT   TGCGTTGCGC   TCACTGCCCG
  TTCGGACCCC   ACGGATTACT   CACTCGATTG   AGTGTAATTA   ACGCAACGCG   AGTGACGGGC

        4870         4880         4890         4900         4910         4920
  CTTTTCCAGTC  GGGAAACCTG   TCGTGCCAGC   TGCATTAATG   AATCGGCCAA   CGCGCGGGGA
  GAAAGGTCAG   CCCTTTGGAC   AGCACGGTCG   ACGTAATTAC   TTAGCCGGTT   GCGCGCCCCT

        4930         4940         4950         4960         4970         4980
  GAGGCGGTTT   GCGTATTGGG   CGCTCTTCCG   CTTCCTCGCT   CACTGACTCG   CTGCGCTCGG
  CTCCGCCAAA   CGCATAACCC   GCGAGAAGGC   GAAGGAGCGA   GTGACTGAGC   GACGCGAGCC

        4990         5000         5010         5020         5030         5040
  TCGTTCGGCT   GCGGCGGAGCG  GTATCAGCTC   ACTCAAAGGC   GGTAATACGG   TTATCCACAG
  AGCAAGCCGA   CGCCGCTCGC   CATAGTCGAG   TGAGTTTCCG   CCATTATGCC   AATAGGTGTC

        5050         5060         5070         5080         5090         5100
  AATCAGGGGA   TAACGCAGGA   AAGAACATGT   GAGCAAAAGG   CCAGCAAAAG   GCCAGGAACC
  TTAGTCCCCT   ATTGCGTCCT   TTCTTGTACA   CTCGTTTTCC   GGTCGTTTTC   CGGTCCTTGG

        5110         5120         5130         5140         5150         5160
  GTAAAAAGGC   CGCGTTGCTG   GCGTTTTTCC   ATAGGCTCCG   CCCCCCTGAC   GAGCATCACA
  CATTTTTCCG   GCGCAACGAC   CGCAAAAAGG   TATCCGAGGC   GGGGGGACTG   CTCGTAGTGT

        5170         5180         5190         5200         5210         5220
  AAAATCGACG   CTCAAGTCAG   AGGTGGCGAA   ACCCGACAGG   ACTATAAAGA   TACCAGGCGT
  TTTTAGCTGC   GAGTTCAGTC   TCCACCGCTT   TGGGCTGTCC   TGATATTTCT   ATGGTCCGCA

        5230         5240         5250         5260         5270         5280
  TTCCCCCTGG   AAGCTCCCTC   GTGCGCTCTC   CTGTTCCGAC   CCTGCCGCTT   ACCGGATACC
  AAGGGGGACC   TTCGAGGGAG   CACGCGAGAG   GACAAGGCTG   GGACGGCGAA   TGGCCTATGG

        5290         5300         5310         5320         5330         5340
  TGTCCGGCCTT  TCTCCCTTCG   GGAAGCGTGG   CGCTTTCTCA   ATGCTCACGC   TGTAGGTATC
  ACAGGCCGGAA  AGAGGGAAGC   CCTTCGCACC   GCGAAAGAGT   TACGAGTGCG   ACATCCATAG

        5350         5360         5370         5380         5390         5400
  TCAGTTCGGT   GTAGGTCGTT   CGCTCCAAGC   TGGGCTGTGT   GCACGAACCC   CCCGTTCAGC
  AGTCAAGCCA   CATCCAGCAA   GCGAGGTTCG   ACCCGACACA   CGTGCTTGGG   GGGCAAGTCG
```

Figure 19J
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1b

5410
CCGACCGCTG CGCCTTATCC GGTAACTATC GTCTTGAGTC CAACCCGGTA AGACACGACT
GGCTGGCGAC GCGGAATAGG CCATTGATAG CAGAACTCAG GTTGGGCCAT TCTGTGCTGA
5420   5430   5440   5450   5460

5470
TATCCGCCACT GGCAGCAGCC ACTGGTAACA GGATTAGCAG AGCGAGGTAT GTAGGCGGGTG
ATAGCGGGTGA CCGTCGTCGG TGACCATTGT CCTAATCGTC TCGCTCCATA CATCCGCCAC
5480   5490   5500   5510   5520

5530
CTACAGAGTT CTTGAAGTGG TGGCCTTAACT ACGGCTACAC TAGAAGGACA GTATTTGGTA
GATGTCTCAA GAACTTCACC ACCGGATTGA TGCCGATGTG ATCTTCCTGT CATAAACCAT
5540   5550   5560   5570   5580

5590
TCTGCGCTCT GCTGAAGCCA GTTACCTTCG GAAAAAGAGT TGGTAGCTCTT TGATCCGGCA
AGACGCGAGA CGACTTCGGT CAATGGAAGC CTTTTTCTCA ACCATCGAGA ACTAGGCCGT
5600   5610   5620   5630   5640

5650
AACAAAACCAC CGCTGGTAGC GGTGGTTTTT TTGTTTGCAA GCAGCAGATT ACGGCGCAGAA
TTGTTTTGGTG GCGACCATCG CCACCAAAAA AACAAACGTT CGTCGTCTAA TGCCGCGTCTT
5660   5670   5680   5690   5700

5710
AAAAAGGATC TCAAGAAGAT CCTTTGATCT TTTCTACGGG GTCTGACGCT CAGTGGAACG
TTTTTCCTAG AGTTCTTCTA GGAAACTAGA AAAGATGCCC CAGACTGCGA GTCACCTTGC
5720   5730   5740   5750   5760

5770
AAAACTCACG TTAAGGGATT TTGGTCATGA GATTATCAAA AAGGATCTTC ACCTAGATCC
TTTTGAGTGC AATTCCCTAA AACCAGTACT CTAATAGTTT TTCCTAGAAG TGGATCTAGG
5780   5790   5800   5810   5820

5830
TTTTAAATTA AAAATGAAGT TTTAAATCAA TCTAAAGTAT ATATGAGTAA ACTTGGTCTG
AAAATTTAAT TTTTACTTCA AAATTTAGTT AGATTTCATA TATACTCATT TGAACCAGAC
5840   5850   5860   5870   5880

5890
ACAGTTACCA ATGCTTAATC AGTGAGGCAC CTATCTCAGC GATCTGTCTA TTTCGTTCAT
TGTCAATGGT TACGAATTAG TCACTCCGTG GATAGAGTCG CTAGACAGAT AAAGCAAGTA
5900   5910   5920   5930   5940

5950
CCATAGTTGC CTGACTCCCC GTCGTGTAGA TAACTACGAT ACGGGAGGGC TTACCATCTG
GGTATCAACG GACTGAGGGG CAGCACATCT ATTGATGCTA TGCCCTCCCG AATGGTAGAC
5960   5970   5980   5990   6000

Figure 19K
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1'b

```
6010           6020           6030           6040           6050           6060
GCCCCAGTGC     TGCAATGATA     CCGCGAGACC     CACGCTCACC     GGCTCCAGAT     TTATCAGCAA
CGGGGTCACG     ACGTTACTAT     GGCGCTCTGG     GTGCGAGTGG     CCGAGGTCTA     AATAGTCGTT

6070           6080           6090           6100           6110           6120
TAAACCAGCC     AGCCGGAAGG     GCCGAGCGCA     GAAGTGGTCC     TGCAACTTTA     TCCGCCTCCA
ATTTGGTCGG     TCGGCCTTCC     CGGCTCGCGT     CTTCACCAGG     ACGTTGAAAT     AGGCGGAGGT

6130           6140           6150           6160           6170           6180
TCCAGTCTAT     TAATTGTTGC     CGGGAAGCTA     GAGTAAGTAG     TTCGCCAGTT     AATAGTTTGC
AGGTCAGATA     ATTAACAACG     GCCCTTCGAT     CTCATTCATC     AAGCGGTCAA     TTATCAAACG

6190           6200           6210           6220           6230           6240
GCAACGTTGT     TGCCATTGCT     ACAGGCATCG     TGGTGTCACG     CTCGTCGTTT     GGTATGGCTT
CGTTGCAACA     ACGGTAACGA     TGTCCGTAGC     ACCACAGTGC     GAGCAGCAAA     CCATACCGAA

6250           6260           6270           6280           6290           6300
CATTCAGCTC     CGGTTCCCAA     CGATCAAGGC     GAGTTACATG     ATCCGCCATC     TTGTGCAAAA
GTAAGTCGAG     GCCAAGGGTT     GCTAGTTCCG     CTCAATGTAC     TAGGGGGTAC     AACACGTTTT

6310           6320           6330           6340           6350           6360
AAGCGGTTAG     CTCCTTCGGT     CCTCCGATCG     TTGTCAGAAG     TAAGTTGGCC     GCAGTGTTAT
TTCGCCAATC     GAGGAAGCCA     GGAGGCTAGC     AACAGTCTTC     ATTCAAACGG     CGTCACAATA

6370           6380           6390           6400           6410           6420
CACTCATGGT     TATGGCAGCA     CTGCATAATT     CTCTTACTGT     CATGCCATCC     GTAAGATGCT
GTGAGTACCA     ATACCGTCGT     GACGTATTAA     GAGAATGACA     GTACGGTAGG     CATTCTACGA

6430           6440           6450           6460           6470           6480
TTTCTGTGAC     TGGTGAGTAC     TCAACCAAGT     CATTCTGAGA     ATAGTGTATG     CGGCGACCGA
AAAGACACTG     ACCACTCATG     AGTTGGTTCA     GTAAGACTCT     TATCACATAC     GCCGCTGGCT

6490           6500           6510           6520           6530           6540
GTTGCTCTTG     CCCGGCGTCA     ATACGGGATA     ATACCGCGCC     ACATAGCAGA     ACTTTAAAAG
CAACGAGAAC     GGGCCGCAGT     TATGCCCTAT     TGTATGGCGCGG   TGTATCGTCT     TGAAATTTTC

6550           6560           6570           6580           6590           6600
TGCTCATCAT     TGGAAAAAGT     TCTTCGGGGC     GAAAACTCTC     AAGGATCTTA     CCGCTGTTGA
ACGAGTAGTA     ACCTTTTTCA     AGAAGCCCCG     CTTTTGAGAG     TTCCTAGAAT     GGCGACAACT
```

Figure 19L
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1b

```
     6610       6620       6630       6640       6650       6660
GATCCAGTTC GATGTAACCC ACTCGTGCAC CCAACTGATC TTCAGCATCT TTTACTTTCA
CTAGGTCAAG CTACATTGGG TGAGCACGTG GGTTGACTAG AAGTCGTAGA AAATGAAAGT

     6670       6680       6690       6700       6710       6720
CCAGCGTTTC TGGGGTGAGCA AAAACAGGAA GGCAAAATGC CGCAAAAAAG GGAATAAGGG
GGTCGCAAAG ACCCACTCGT TTTTGTCCTT CCGTTTTACG GCGTTTTTTC CCTTATTCCC

     6730       6740       6750       6760       6770       6780
CGACACGGAA ATGTTGAAATA CTCATACTCT TCCTTTTTCA ATATTATTGA AGCATTTATC
GCTGTGCCTT TACAACTTAT GAGTATGAGA AGGAAAAAGT TATAATAACT TCGTAAATAG

     6790       6800       6810       6820       6830       6840
AGGGTTATTG TCTTCATGAGC GGATACATAT TTGAATGTAT TTAGAAAAAT AAACAAATAG
TCCCAATAAC AGAGTACTCG CCTATGTATA AACTTACATA AATCTTTTTA TTTGTTTATC

     6850       6860       6870       6880       6890       6900
GGGGTTCCGCG CACATTTCCC CGAAAAGTGC CACCTGACGT CGACGGATCG GGAGATCTGC
CCCAAGGCGC GTGTAAAGGG GCTTTTCACG GTGGACTGCA GCTGCCTAGC CCTCTAGACG

     6910       6920       6930       6940       6950       6960
TAGGTGACCT GAGGCGCGCC GGCTTCGAAT AGCCAGAGTA ACCTTTTTTT TTTAATTTTAT
ATCCACTGGA CTCCGCGCGG CCGAAGCTTA TCGGTCTCAT TGGAAAAAAA AAATTAAAATA

     6970       6980       6990       7000       7010       7020
TTTATTTTAT TTTTGAGATG GAGTTTGGCG CCGATCTCCC GATCCCCTAT GGTCGGACTCT
AAATAAAATA AAAACTCTAC CTCAAACCGC GGCTAGAGGG CTAGGGGATA CCAGCTGAGA

     7030       7040       7050       7060       7070       7080
CAGTACAATC TGCTCTGATG CCGCATAGTT AAGCCAGTAT CTGCTCCCTG CTTGTGTGTT
GTCATGTTAG ACGAGACTAC GGCGTATCAA TTCGGTCATA GACGAGGGAC GAACACACAA

     7090       7100       7110       7120       7130       7140
GGAGGTCGCT GAGTAGTGCG CGAGCAAAAT TTTAAGCTACA ACAAGGCAAG GCTTGACCGA
CCTCCAGCGA CTCATCACGC GCTCGTTTTA AAATTCGATGT TGTTCCGTTC CGAACTGGCT

     7150       7160       7170       7180       7190       7200
CAATTGCATG AAGAATCTGC TTAGGGTTAG GCGTTTTGCG CTGCTTCGCGI ATGTACGGGC
GTTAACGTAC TTCTTAGACG AATCCCAATC CGCAAAACGC GACGAAGCGC TACATGCCCG
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Figure 19M
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1b

```
      7210        7220        7230        7240        7250        7260
CAGATATACG  CGTTGACATT  GATTATTGAC  TAGTTATTAA  TAGTAATCAA  TTACGGGGTC
GTCTATATGC  GCAACTGTAA  CTAATAACTG  ATCAATAATT  ATCATTAGTT  AATGCCCCAG

      7270        7280        7290        7300        7310        7320
ATTAGTTCAT  AGCCCCATATA  TGGAGTTCCG  CGTTACAATAA  CTTACGGTAA  ATGGCCCGCC
TAATCAAGTA  TCGGGTATAT  ACCTCAAGGC  GCAATGTATT  GAATGCCATT  TACCGGGGCGG

      7330        7340        7350        7360        7370        7380
TGGCTGACCG  CCCAACGACC  CCCGCCCATT  GACGTCAATA  ATGACGTATG  TTCCCATAGT
ACCGACTGGC  GGGGTTGCTGG GGGCGGGTAA  CTGCAGTTAT  TACTGCATAC  AAGGGTATCA

      7390        7400        7410        7420        7430        7440
AACGCCAATA  GGGACTTTCC  ATTGACGTCA  ATGGGTGGAC  TATTTACGGT  AAAACTGCCCA
TTGCGGTTAT  CCCTGAAAGG  TAACTGCAGT  TACCCACCTG  ATAAATGCCA  TTTTGACGGGT

      7450        7460        7470        7480        7490        7500
CTTGGCAGTA  CATCAAGTGT  ATCATATGCC  AAGTACGCCC  CCTATTGACG  TCAATGACGG
GAACCGGTCAT GTAGTTCACA  TAGTATACGG  TTCATGCGGG  GGATAACTGC  AGTTACTGCC

      7510        7520        7530        7540        7550        7560
TAAATGGCCC  GCCTGGCATT  ATGCCCAGTA  CATGACCTTA  TGGGACTTTC  CTACTTGGCA
ATTTACCGGG  CGGACCGTAA  TACGGGTCAT  GTACTGGAAT  ACCCTGAAAG  GATGAACCGT

      7570        7580        7590        7600        7610        7620
GTACATCTAC  GTATTAGTCA  TCGCTATTAC  CATGGTGATG  CGGTTTTGGC  AGTACATCAA
CATGTAGATG  CATAATCAGT  AGCGATAATG  GTACCACTAC  GCCAAAAACCG TCATGTAGTT

      7630        7640        7650        7660        7670        7680
TGGGCGTGGA  TAGCGGTTTG  ACTCACGGGG  ATTTCCAAGT  CTCCACCCCA  TTGACGTCAA
ACCCGCACCT  ATCGCCAAAC  TGAGTGCCCC  TAAAGGTTCA  GAGGTGGGGGT AACTGCAGTT

      7690        7700        7710        7720        7730        7740
TGGGAGTTTG  TTTTGGCACC  AAAATCAACG  GGACTTTCCA  AAATGTCGTA  ACAACTCCGC
ACCCTCAAAC  AAAACCGTGG  TTTTAGTTGC  CCTGAAAGGT  TTTACAGCAT  TGTTGAGGCG

      7750        7760        7770        7780        7790        7800
CCCATTGACG  GTAGGCGTGT  ACGGTGGGAG  GTCTATATAA  GCAGAGCTCT
GGGTAACTGC  CATCCGCACA  TGCCACCCTC  CAGATATATT  CGTCTCGAGA
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Figure 19N
(SEQ ID NO.: 23 – Primary Sequence)
(SEQ ID NO.: 29 – Complement)

pD17-hG1b

```
       7810        7820        7830        7840        7850        7860
CTGGCTAACT AGAGAACCCA CTGCTTACTG GCTTATCGAA ATTAATACGA CTCACTATAG
GACCGATTGA TCTCTTGGGT GACGAATGAC CGAATAGCTT TAATTATGCT GAGTGATATC

       7870        7880
GGAGACCCAA GCTT
CCTCTGGGTT CGAA
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